

10038

A diabetic hemodialysis case with multiple recurrence of ISR following DES Sandwiches. -unusual intracoronary images suggesting thrombus or calcification-

A 61 years old male, receiving hemodialysis with histories of diabetes mellitus, hypertension and previous smoking, was admitted to our hospital with silent ST depression on ECG. CAG revealed two vessel diseases. BMS, SES and PES were implanted to RCA(#1), RCA(#2) and LAD(#6-7), respectively. The clinical course was miserable: repeated restenosis and thrombosed-occlusion occurred in the RCA lesions as neo-intimal tissues superimposed like sandwiches with PES-in-BES at RCA(#1) and RCA(#2); unequivocal progression of non-target lesions were confirmed in RCA(#3), LCX(#11) and LMT; and new "sandwiches" were made by EES-in-BES at RCA(#3) and EES-in-BES-in-EES at LCX(#11). During this course, two unusual images were observed. An IVUS image in RCA(#2) (figure-left) showed in-stent intimal hyperplasia with superficial acoustic shadow, speculated as a red blood cell-rich thrombus. Another novel image was observed by FD-OCT in LMT, where a highly attenuated signal-poor region beyond a sharply delineated superficial border was detected (figure-right), suggesting a necrotic-core with a fibro-calcific cap. These thrombus formation and lipid-rich calcification might explain the catastrophe of this case.

